

MATERIAL NUMBER 1.0481 · CLASS 1.0

СТ.14Г2

Material no. 1.0481

also listed as 17Mn4

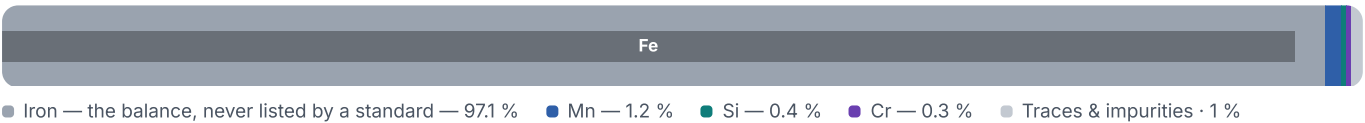
Chemical composition, mechanical and physical property values, and 83 standard designations from 16 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 83 in 16 regions	PROPERTY VALUES 16 on file
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Chemical composition

Mass fraction in %

What this alloy is



Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

Predicted transformation temperatures

computed from composition · °C

PREDICTED AE3 810 °C	PREDICTED AE1 714 °C	PREDICTED ACM 436 °C	PREDICTED BS 555 °C
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Mechanical properties

13 values across 2 conditions

NORMALIZED	REH N/mm ²	RM N/mm ²
≤ 16	295	—
16 – 40	290	—
40 – 60	285	—
60 – 100	260	—
≤ 100	—	460–580
100 – 150	235	440–570
150 – 250	220	430–570

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	KCU kJ/m ²
Sheet, GOST 5520-79	430–520	255–275	20	590

Physical properties

2 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Normalizing	Temperature not stated	—

83 designations · 9 documented as identical

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Sweden	2	Hungary	1
2102	ss	P295GH	msz
2103	ss		
Bulgaria	2	Romania	1
16GS	bds	K460	stas
P295GH	bds	Austria	1
Slovakia	1	17Mn4KW	onorm
13 030	stn		

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about ct.14Г2
Quotation, availability, mill certificate or a technical question — directly on the material page.

[Start an enquiry](#)

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.0481	Aug 20, 2026